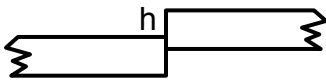


GUIDELINES FOR THE DETERMINATION OF DETERIORATED SIDEWALKS, CURB AND GUTTER

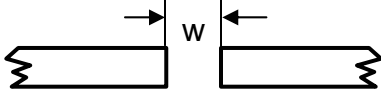
#1 Vertical Displacement



Side View h=height

Vertical Displacement. Sidewalk, Curb and Gutter, Driveway Approach. Any displacement greater than one inch shall be removed and displaced. This criteria applies to all sidewalks, whether adjacent to the curb & gutter or not. However, curb & gutter will be evaluated with regard to storm drain capabilities.

#2 Horizontal Displacement



Side View w=width

Horizontal Displacement. Horizontal displacement or crack equal to one inch or more for 50% or more of the gutter pan in the transverse direction (perpendicular to the sidewalk).

Note: Also included are longitudinal cracks that appear to impede the function of the gutter pan.

#3 Holes

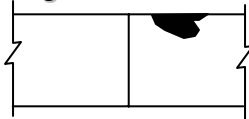


Side View d=diameter

Holes. Holes equal to one inch or more in diameter, and one-half inch or more in depth, located such that they create an unsafe condition.

(Patching as an alternative may be allowed)

#4 Missing Portions

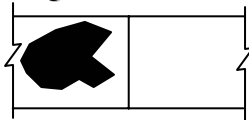


Bird's-Eye View

Missing Portions. A missing portion of sidewalk, curb & gutter section, nine square inches or greater in area. (A section is defined as an area between any two consecutive construction joints, expansion joints, or score marks).

Note: Missing portion should be one-half inch in depth or greater.

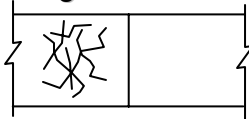
#5 Spalling



Bird's-Eye View

Spalling. Spalling (missing surface fragments) over 50% of the surface of a sidewalk or curb & gutter. Curb & gutter sections must be spalled to a depth of one-half inch or greater. Sidewalk sections must be spalled to a depth of 3/16 inch or greater.

#6 Cracking

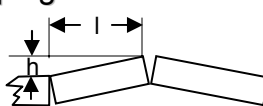


Bird's-Eye View

Cracking. Cracking over 50% of the surface of a sidewalk or curb & gutter section.

Note: Spider web cracks or surface cracks that have not opened are not included.

#7 Sloping

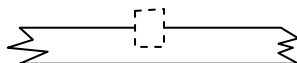


Side View

Sloping. Sloping is an abrupt change in the slope of the sidewalk or curb & gutter of one-half inch per foot or more.

l=length
h=height
slope=height/length

#8 Protrusions



Side View

Protrusions. Any abnormal protrusions, depression or inclusion which creates an unsafe condition. As an example, the figure to the left displays a portion of pipe extending from the sidewalk. Patching as an alternative may be allowed.

Note: The above figures only use views of sidewalk sections for simplicity to portray guideline concepts.

Note: Minimum sections to be replaced shall be from score mark or construction joint to the next score mark or construction joint. Curb and gutter replacement shall be 10 foot minimums.